Replacement Parts List No. 700009700
Revision D 11/2013

Air Cooled
Screw Compressor Chiller

AGS
Sizes: 140 - 210
Vintage: D
R134a

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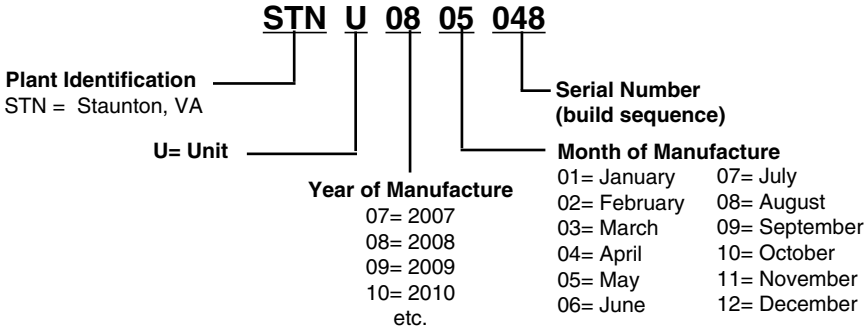
Parts List Revision History

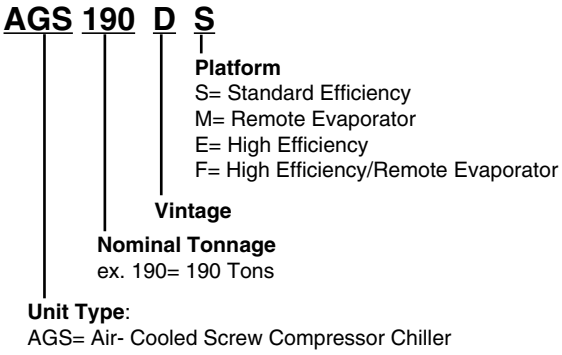
Revision	Date	Description
NEW	12/07	New.
A	01/08	Cover: Added "R134a". Page 21: Added info to Benshaw label callout. Isolator table headings were changed from "Code 0**2**=" to "Code 03=".
B	8/09	Page 19: Ref #616 change Sch. Sym. to "W**H**1,2" from "W**D**1,2". Add Suction and Discharge Temp Sensor p/n 073007302. Add Cable Transducer p/n 331409903.
C	8/12	Cover, Rev pg.: Updated to Daikin McQuay logo format. Various: Changed "McQuay Parts" to "**Daikin** McQuay Parts". Cover, Master Page: Changed size range from "1**7**0-210" to "1**4**0-210". Page 4, 5: Updated coding to Rev. 0J 8/3/12. Page 6 (New): Added page for additional coding. Page 12 (New): Added page for common cmpr. components. All: Rewrote form adding in sizes 140 and 160. Added pages and updated information and p/ns as required. Repaginated form and updated TOC.
D	11/2013	Page 12: Added "Slide Indicator" to description for Ref. 126. Added O-Ring, Compressor Oil Separator. Pages 24 & 25: Added "Linear Transducer" to descriptions for Ref. 600.

Nomenclature

Serial Number



Unit Model Number- Dataplate



Unit Model Number, Complete

AGS	**190D**	**S**	**A**	**NN**	**S**	**S**	**LH**	**A**	**F**	**T**	**G**	**NN**	**M2SE**	**SAMB**	**27**	**SS**	**WN**	**V**	**G**	**N**	**NN**	**S1**	**NN**	**ER**
Code	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**

NN	**E**	**N**	**DM**	**DSUDPLNONCPE1NNNNNNND00**															**NN**	**NN**	**NNNNNN**		**NNNN**		**N**	**N**	**0000**
26	**27**	**28**	**29**	**30- 36**															**37**	**38**	**39-41**		**42**		**43**	**44**	**45**

000	**N**	**000**	**N**	**N**	**N**	**N**	**S**	**S**	**00**	**0000**	**0000000000000000**													
46	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**													

Nomenclature
Continued
Unit Model Number- Complete

02 Size (in nominal tons)
- 140D= 140 Tons 'D' Vintage
- 160D= 160 Tons 'D' Vintage
- 170D= 170 Tons 'D' Vintage
- 190D= 190 Tons 'D' Vintage
- 200D= 200 Tons 'D' Vintage
- 210D= 210 Tons 'D 'Vintage

03 Platform
- S= Standard Efficiency Packaged Unit
- M= Standard Efficiency w/ Remote Evaporator
- E= High Efficiency Packaged Unit
- F= High Efficiency w/ Remote Evaporator

04 Refrigerant
- A= R134A

05 Efficiency/Sound
- NN= Standard Sound
- SE= Sound Enclosure

06 Evaporator Insulation
- S= Single Layer
- D= Double Layer

07 Unit Operation
- S= Standard Operation (40°F- 60°F LWT)
- A= Lower Operation (34°F- 39°F LWT)
- B= Lower Operation (20°F- 33°F LWT)

08 Evaporator Heads
- LH= Left hand
- RH= Right Hand

09 Condenser Coil Fins
- A= Aluminum Fins
- C= Copper Fins
- B= Aluminum Fin w/ Prefab Blackfin Coating
- E= Aluminum Fin w/ Electrofin Coating
- F= Copper Fin w/ Electrofin Coating

10 Head Pressure
- F= Fantrol (35° F Minimum)
- V= VFD First Fans/Circuit
- A= VFD All Fans/Circuit

11 Fan Motor
- T= Totally Enclosed
- L= Low Noise Fan Motors

12 Condenser Coil Guards
- G= Condenser Coil Grilles Only
- F= Condenser Coil & Base Frame Grilles
- L= Condenser Coil Louvers
- B= Condenser Coil Louvers & Base Guard Louvers
- C= Condenser Coil Louvers & Base Frame Grilles

13 Communication
- NN= None
- LM= LonMark
- MB= ModBus
- BN= BACnet w/MSTP
- BE= BACnet w/Ethernet

14 Controls
- M2SE= Standard Mode/MicroTechII/English
- M2SD= Standard Mode/MicroTechII/English w/ Remote Display

15 Control Box Ambient
- SAMB= Standard- 105°F Ambient & Below
- HAMB= Standard- Above 105°F Ambient

16 Voltage
- 12= 208/60/3
- 27= 460/60/3
- 29= 230/60/3
- 37= 575/60/3

17 Starter
- WD= Wye Delta
- SS= Solid State

18 Power Connection
- PC= Single Point Power Block & Circuit Breakers
- DC= Single Point Disconnect Switch & Circuit Breakers
- DT= High Interrupt Disconnect Switch Current Rating + DC
- DH= High Short Circuit Current Rating + DC
- WN= Multiple Point with Circuit Breakers as Disconnects
- WT= High Interrupt Current Rating w/ Multi-Point CB as DS
- WH= High Short Circuit Current Rating w/ Multi-Point CB as DS

19 Phase Voltage
- P= PVM included as part of Solid State
- V= Phase & Under/Over Voltage Protection w/LED

20 Ground Fault
- N= No Ground Fault Protection
- G= Ground Fault Protection for the Unit

21 Unit Options
- N= No Unit Options
- C= 115V Convenience Outlet

22 Water Flow
- NN= No Water Flow Indication
- AA= Water Flow Indication on Evaporator Only

23 Field Options
- S1= Single Evaporator Pump- Single Control Output
- D1= Dual Evaporator Pump- Single Control Output
- D2= Dual Evaporator Pump- Dual Control Output

24 Tubing Options
- NN= Standard- No Suction Shut Off Valve
- SS= With Suction Shut Off Valve

25 Unit Controls
- ER= EEXV & Extended Range Control

26 Water Pump
- NN= None
- FH= Field Supplied Power- 7.5HP Pump Motor/1800 RPM
- FJ= Field Supplied Power- 10HP Pump Motor/1800 RPM
- FK= Field Supplied Power- 15HP Pump Motor/1800 RPM
- UH= Unit Supplied Power- 7.5HP Pump Motor/1800 RPM
- UJ= Unit Supplied Power- 10HP Pump Motor/1800 RPM
- UK= Unit Supplied Power- 15HP Pump Motor/1800 RPM
- GK= Field Supplied Power- 15HP Pump Motor/3600 RPM
- GL= Field Supplied Power- 20HP Pump Motor/3600 RPM
- GM= Field Supplied Power- 25HP Pump Motor/3600 RPM
- GN= Field Supplied Power- 30HP Pump Motor/3600 RPM
- GP= Field Supplied Power- 40HP Pump Motor/3600 RPM
- VK= Unit Supplied Power- 15HP Pump Motor/3600 RPM
- VL= Unit Supplied Power- 20HP Pump Motor/3600 RPM
- VM= Unit Supplied Power- 25HP Pump Motor/3600 RPM
- VN= Unit Supplied Power- 30HP Pump Motor/3600 RPM

Nomenclature
Continued
Unit Model Number- Complete, Continued

27 Approvals
E= ETL/CETL Approval
M= MEA & ETL/CETL Approval

28 CRN- Evap
N= No CRN Required
1= CRN- BC
2= CRN- ALB
3= CRN- SASK
4= CRN- MAN
5= CRN- ONT
6= CRN- QUE
7= CRN- NB
8= CRN- NS
9= CRN- PEI
0= CRN- NF
U= CRN- YUK

29 Brand Name
DM= Daikin McQuay
MC= McQuay
JD= Daikin

30-36 Unit Start & Warranties

37 Always NN

38 Construction
NN= Standard
SE= Seismic Rated

39-41 Always NNNNNN

42 Pump Type
NNNN= No Pump Package
PPSS= Pump Package Air-Cooled Screw Single Pump
PPSD= Pump Package Air-Cooled Screw Dual Pump

43 Always N

44 Pump Connection
N= No Pump
6= 6" Connection

45 Pump Flow
Four digit number determined by unit size

46 Total Feet of Head
Three digit number based on selection program

47 Pump Package Starter
N= No Pump
S= Pump Package Starter
V= Pump Package VFD Starter

48 Glycol Percentage
000= No Glycol
E00= Percentage of Ethylene (Ex. E10= 10% Ethylene)
P00= Percentage of Propylene (Ex. P10= 10% Propylene)

49 Pump Gauges
N= None
G= Pump Pressure Gauges

50 Pump Suction Valve
N= None

51 Pump Discharge Valve
N= None

52 Always N

53 Pump Misc
S= Standard Unit
X= Special Pump

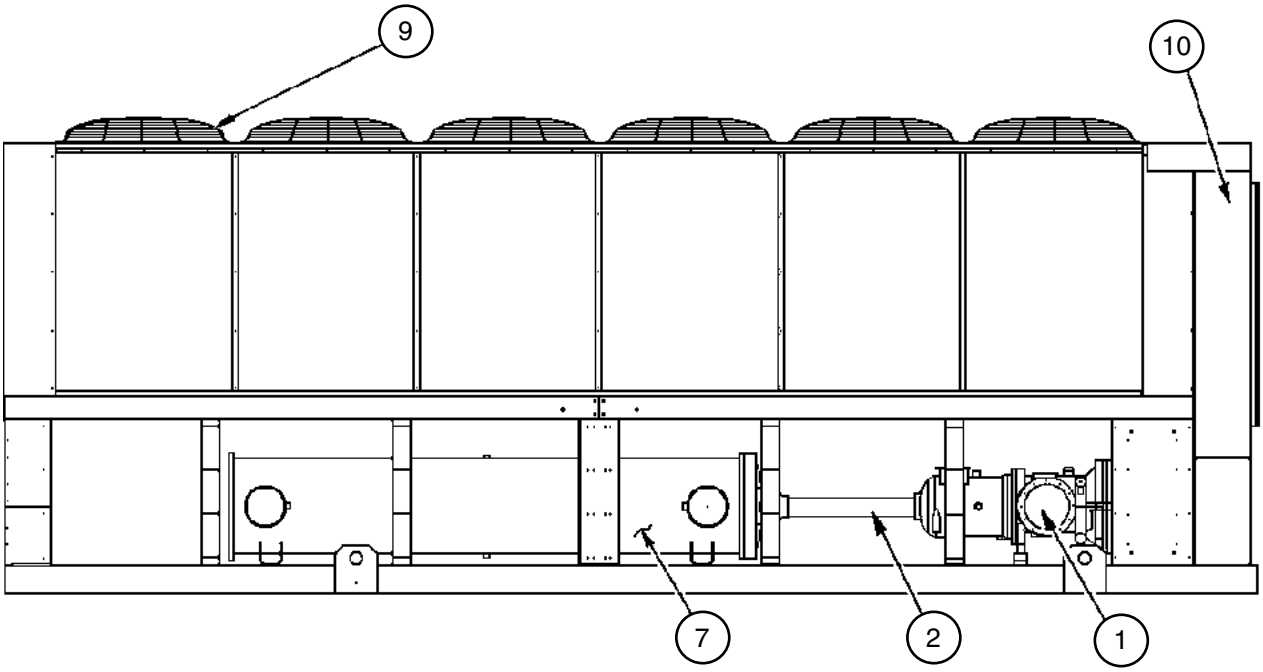
54 Unit- Misc.
S= Standard Unit
X= Special Unit

55 Revision
00= Latest Revision

56 Pump Impeller Size
Four digit number based on selection program

57 Pump Part Number
Sixteen digit number based on selection program

Unit Layout Diagram
(12 Fan Unit Shown)



Ref. No.	Description	Location
1	Compressor	Refrigeration Section
2	Tubing (Suction Line shown)	Refrigeration Section
7	Evaporator	Refrigeration Section
9	Fan Deck	Condenser Section
10	Control Box	Controls Section

Electrical Legend

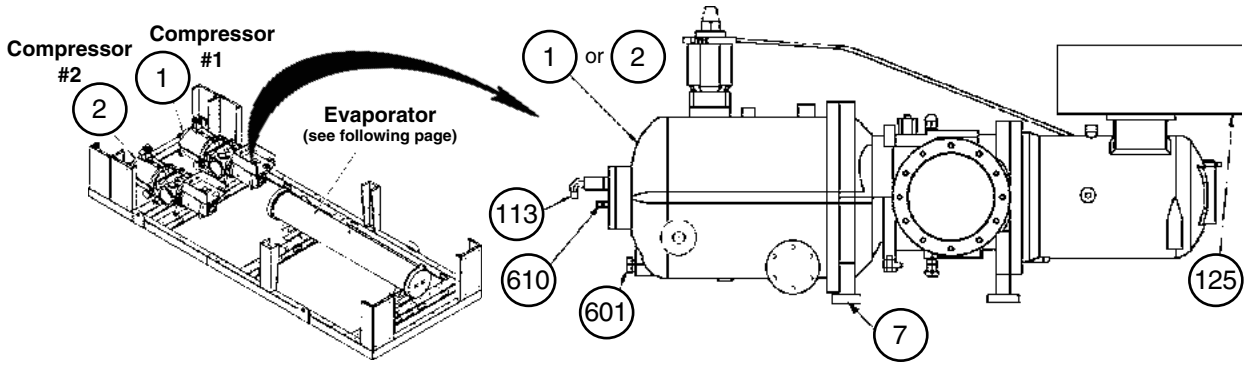
Schem. Sym.	Description
ABT	Alarm Bell Transformer
CHWR1, 2	Chilled Water Pump Relays
CP1	Central Processor
EXB1, 2	Electronic Expansion I/O Board
EXVB1, 2	Electronic Expansion Valve Driver Board
F10, 20	Fuses- Compressor CCH
F13, F23	High Pressure Switches
F59	Fuse- Evap Heater
FU4, 5	Fuses- Main Transformer
GFR1	Ground Fault Relay
GUARDISTOR	Guardistor- Compressor
K1, K2	Relays- High Pressure
KM1, 2	Contactors- Compressor #1
KM3, 4	Contactors- Compressor #2
KM55, 65	Contactors- Compressor, Run
KMP11-26	Contactors- Condenser Fan Motors
LCD	LCD Display
LPS1, LPS2	Switches- Compressor Low Pressure
LR1, 2	Line Reactors
M1, 2	Compressor Motors
M11- 26	Condenser Fan Motors
MJB1, 2	Compressor Control Harnesses
MSP11- 25	Condenser Motor Starter Protectors
P10	Main Power Block
PA1, 2	Pump Alarms
PVM	Phase Voltage Monitor
Q1, Q2	Switches- Pumpdown
Q10	Main Disconnect Switch
Q11, Q12	Circuit Breakers- Compressor
R1, R2	Relays- CCH
R5	Relay- Evaporator Heater
R6, R7	Relay- Oil Seperator Heater
R70, 72	Relays- Low Ambient
REC1	Utility Receptacle
SI1, 2	Slide Indicators
ST1, 2	Suction Temperature Sensors
T1	Main Transformer
T2	Controller Transformer
T4, T5	Expansion Valve Board Transformers
TB1, TB2	Terminal Blocks- Compr. Terminal Box
TB4	Terminal Block- Power Side
TB5, 6	Terminal Blocks- Control

Electrical Legend, Continued

Schem. Sym.	Description
TC1, 2	Thermisters- Compressors
TS1	Control- High Ambient
TS2	Control- Low Ambient
VFD1, 2	Variable Frequency drives- Cond. Fan
WAA	Sensor- Outdoor Air
WD1, 2	Sensors- Discharge Temperature
WH1, 2	Pressure Transducers- Discharge
WIE	Sensor- Evaporator Entering Water
WL1, 2	Pressure Transducers- Suction
WO1, 2	Pressure Transducers- Oil
WOE	Sensor- Evaporator Leaving Water
Y1, Y2	Solenoid Valves- Liquid Line
Y12, Y22	Solenoid Valves- Compressor Loading
Y13, Y23	Solenoid Valves- Compressor Unloading
Y7, Y8	Solenoid Valves- Economizer

Refrigeration Section

Compressors, Crankcase Heaters, Relief Valves, High Pressure Switches, Terminal Boxes, Isolators: AGZ140-170D

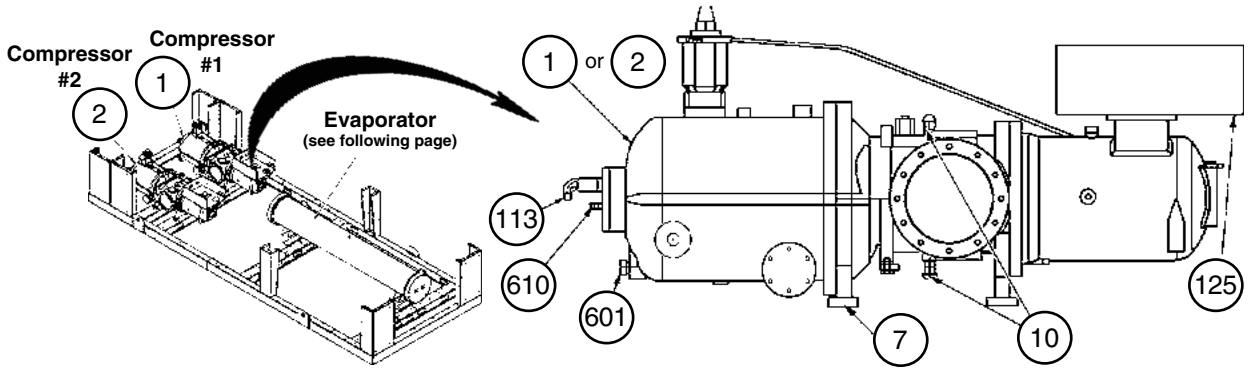


Ref No.	Part Description	Part Number	Unit Size											
			140				160				170			
			208V	230V	460V	575V	208V	230V	460V	575V	208V	230V	460V	575V
1	Compressor #1													
	Standard Efficiency Unit Code 03= S,M	331600055	1				1							
	Standard Efficiency Unit Code 03= S,M	331600075		1				1						
	Standard Efficiency Unit Code 03= S,M	331600015			1				1					
	Standard Efficiency Unit Code 03= S,M	331600035				1				1				
	Standard Efficiency Unit Code 03= S,M	331600054									1			
	Standard Efficiency Unit Code 03= S,M	331600074										1		
	Standard Efficiency Unit Code 03= S,M	331600014											1	
	Standard Efficiency Unit Code 03= S,M	331600034												1
	High Efficiency Unit Code 3= E,F	331600055									1			
	High Efficiency Unit Code 3= E,F	331600075										1		
	High Efficiency Unit Code 3= E,F	331600015											1	
	High Efficiency Unit Code 3= E,F	331600035												1
2	Compressor #2													
	Standard or High Efficiency Unit	331600055	1											
	Standard or High Efficiency Unit	331600075		1										
	Standard or High Efficiency Unit	331600015			1									
	Standard or High Efficiency Unit	331600035				1								
	Standard or High Efficiency Unit	331600054					1				1			
	Standard or High Efficiency Unit	331600074						1				1		
	Standard or High Efficiency Unit	331600014							1				1	
	Standard or High Efficiency Unit	331600034								1				1
7	Isolator- Neoprene Pad	330527701 [1]	4	4	4	4	4	4	4	4	4	4	4	4
113	Relief Valve 350PSI	735045855 [1]	1	1	1	1	1	1	1	1	1	1	1	1
125	Terminal Box	331718801 [1]	1	1	1	1	1	1	1	1	1	1	1	1
	Cover- Terminal Box	331718701 [1]	1	1	1	1	1	1	1	1	1	1	1	1
601	Crankcase Heater 120V/250W	735041263 [1]	1	1	1	1	1	1	1	1	1	1	1	1
610	Switch- High Pressure 290PSI	073074009 [1]	1	1	1	1	1	1	1	1	1	1	1	1

[1] Quantities listed are PER compressor.

Refrigeration Section

Compressors, Crankcase Heaters, Relief Valves, High Pressure Switches, Terminal Boxes, Isolators: AGZ190- 210D

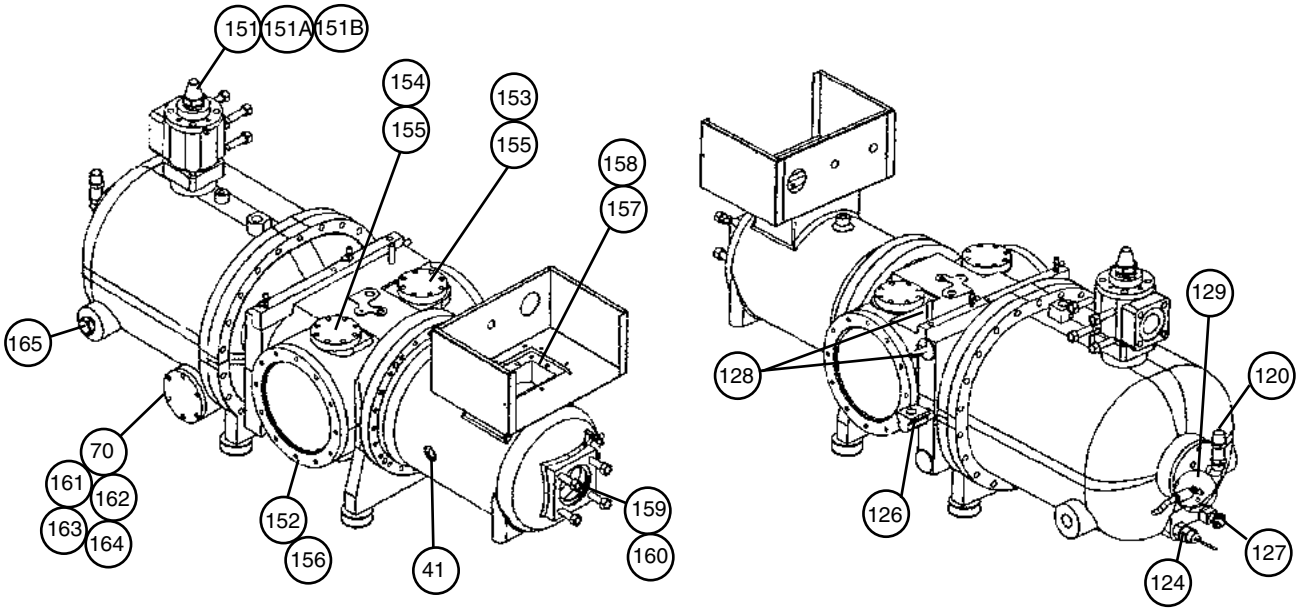


Ref No.	Part Description	Part Number	Unit Size											
			190				200				210			
			208V	230V	460V	575V	208V	230V	460V	575V	208V	230V	460V	575V
1	Compressor #1													
	Standard Efficiency Unit Code 03= S,M	331600054	1				1							
	Standard Efficiency Unit Code 03= S,M	331600074		1				1						
	Standard Efficiency Unit Code 03= S,M	331600014			1				1					
	Standard Efficiency Unit Code 03= S,M	331600034				1				1				
	Standard Efficiency Unit Code 03= S,M	331600053									1			
	Standard Efficiency Unit Code 03= S,M	331600073										1		
	Standard Efficiency Unit Code 03= S,M	331600013											1	
	Standard Efficiency Unit Code 03= S,M	331600033												1
	High Efficiency Unit Code 03= E,F	331600054	1											
	High Efficiency Unit Code 03= E,F	331600074		1										
	High Efficiency Unit Code 03= E,F	331600014			1									
	High Efficiency Unit Code 03= E,F	331600034				1								
2	Compressor #2													
	Standard or High Efficiency Unit	331600054	1				1							
	Standard or High Efficiency Unit	331600074		1				1						
	Standard or High Efficiency Unit	331600014			1				1					
	Standard or High Efficiency Unit	331600034				1				1				
	Standard or High Efficiency Unit	331600053									1			
	Standard or High Efficiency Unit	331600073										1		
	Standard or High Efficiency Unit	331600013											1	
	Standard or High Efficiency Unit	331600033												1
7	Isolator- Neoprene Pad	330527701 [1]	4	4	4	4	4	4	4	4	4	4	4	4
10	Fitting- Economizer	070789379 [2]	2	2	2	2	2	2	2	2				
113	Relief Valve 350PSI	735045855 [1]	1	1	1	1	1	1	1	1	1	1	1	1
125	Terminal Box	331718801 [1]	1	1	1	1	1	1	1	1	1	1	1	1
	Cover- Terminal Box	331718701 [1]	1	1	1	1	1	1	1	1	1	1	1	1
601	Crankcase Heater 120V/250W	735041263 [1]	1	1	1	1	1	1	1	1	1	1	1	1
610	Switch- High Pressure 290PSI	073074009 [1]	1	1	1	1	1	1	1	1	1	1	1	1

[1] Quantities listed are PER compressor.

[2] Economizers are used only on High Efficiency size 190D units, and Standard Efficiency size 200D units.

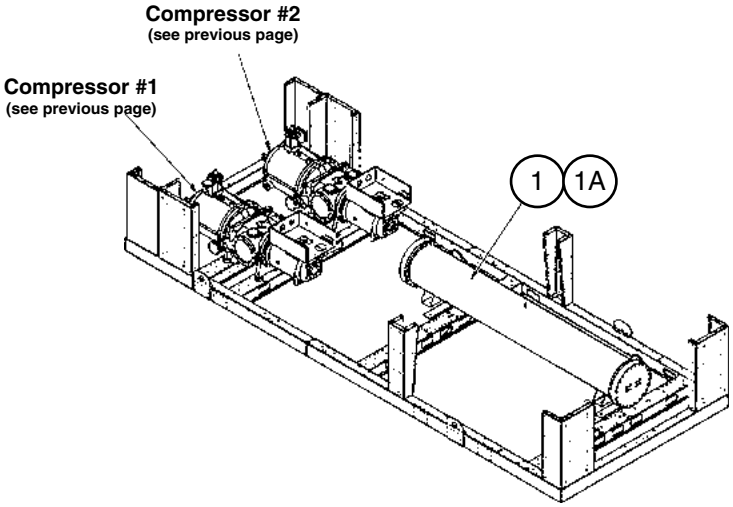
Refrigeration Section
Common Compressor Components

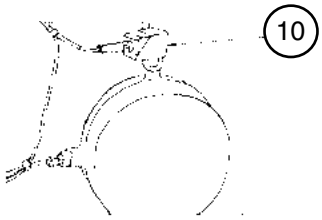


Ref No.	Description	Part Number	Quantity Per Compressor
41	Plug/O-Ring, .875 hollow	735017109	2
70	Oil Filter Cover Plate	330480401	1
120	Relief Valve	735045855	1
124	Heater, Cartridge, 120V, 250W, 15ft.	735041263	1
126	Linear Transducer / Slide Indicator	330591101	1
127	Oil Sensor	330386401	1
128	Solenoid Coil, 120VAC/60HZ- ASCO [2]	072932003	2
	Solenoid Coil, 120VAC/60HZ- Sporlan [2]	331451099	2
129	Control, Pressure Switch, 290PSI - 170 PSI	073074009	1
151	Shut Off Valve/Pressure Regulator/Non-Return Valve	331322001	1
151A	Gasket	070199115	1
151B	Gasket, 4 Bolt Flange	070199108	1
152	O-Ring, 249.5mm x 3mm (Side Cover)	7316423	2
153	O-Ring, 84.3mm x 5.7mm (Bearing Housing, Large)	7316146	2
154	O-Ring, 74.5mm x 3mm (Bearing Housing, Small)	7316394	2
NS	O-Ring, Compressor Oil Separator	735043638	1
155	Bolt, M8 x 25 (Bearing Housing)	715618155	32
156	Bolt, M10 x 40 (Side Cover)	330821920	24
157	Motor Terminal	074606101	[1]
158	Gasket, Terminal Box	070950301	1
159	Suction Strainer	87211301	1
160	Suction Strainer Gasket	070199104	2
161	Oil Filter	735006907	1
162	Oil Filter O-Ring	735073672	1
163	Oil Filter O-Ring	350233025	1
164	Screw, M10 x 25MM	715618169	6
165	Oil Sight Glass	350229501	2

[1] On 208V and 230V, quantity = 6. On 380V, 460V and 575V, quantity = 3.
[2] Confirm manufacturer of Solenoid before ordering.
NS = Not Shown

Refrigeration Section
Evaporator, Evaporator Insulation, Flow Sensor, Ball Valve





Flow Sensor Detail

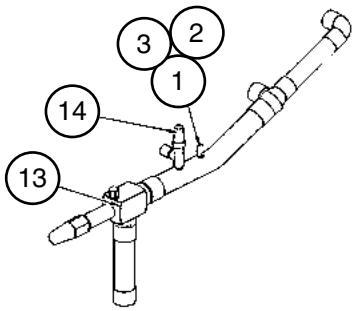
Ref No.	Part Description	Part Number	Unit Size					
			140	160	170	190	200	210
1	Evaporator- Shell and Tube Assembly							
	Right Hand Connection Code 08= RH	331475514	1	1	1			
	Right Hand Connection Code 08= RH	331475513				1	1	1
	Left Hand Connection Code 08= LH	331475504	1	1	1			
	Left Hand Connection Code 08= LH	331475503				1	1	1
1A	Insulation							
	Single Layer Code 06= S	047662050	45 sqft	45 sqft	45 sqft	45 sqft	45 sqft	45 sqft
10	Flow Switch [1] Code 22= AA	330571401	1	1	1	1	1	1
N/S	Cable, Flow Switch (10 Meters) [1]	330571403	1	1	1	1	1	1
N/S	Ball Valve- Mini .50 NPT	071596201	1	1	1	1	1	1

N/S= Not Shown on Diagram.

[1] Included in Water Flow Indicator Kit 330904361.

Refrigeration Section
Tubing- Liquid Lines

Liquid Line Line Detail- Remote Evaporator Unit- Code 03= M or F
No Economizer- Unit Sizes 140- 160D, 190D Std. Eff. (Code 03= M), & 210D

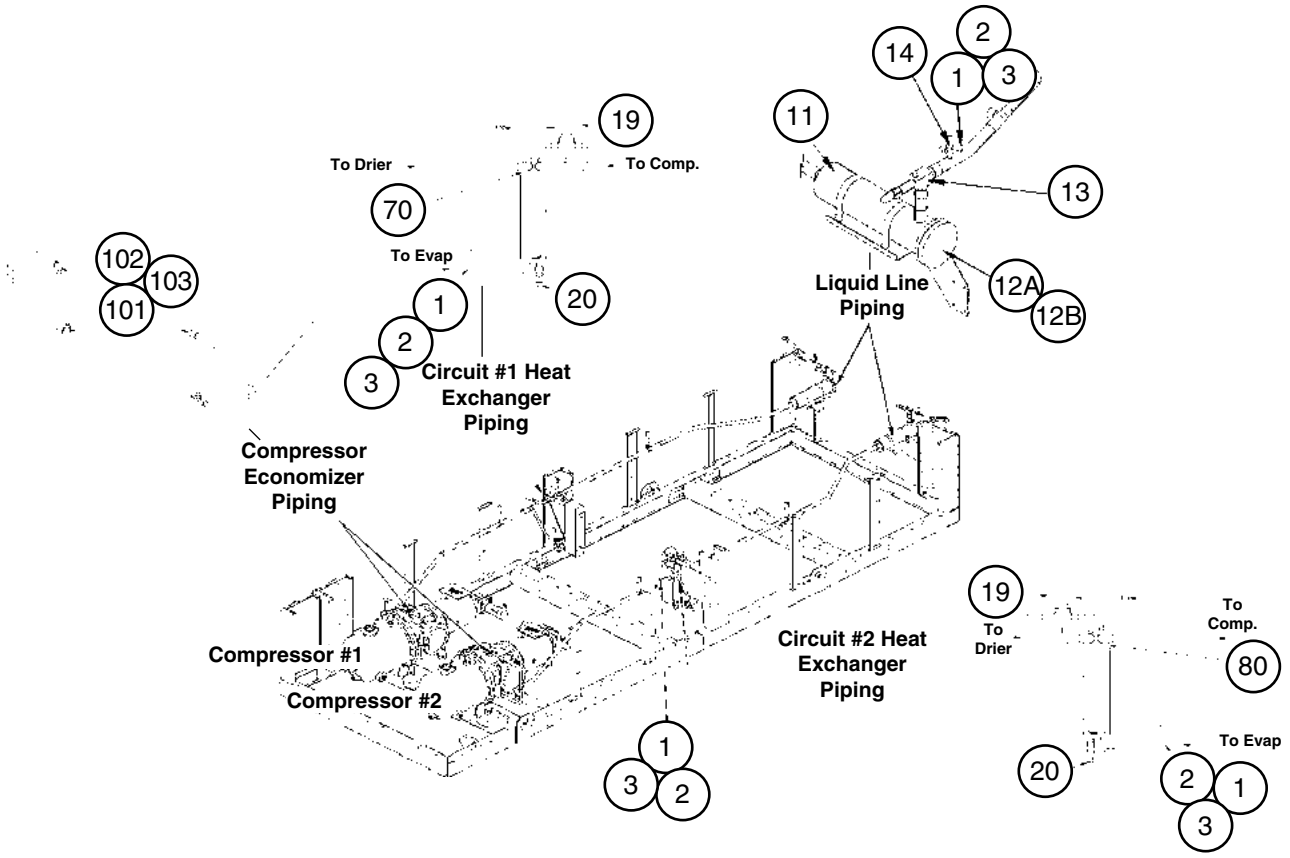


Ref No.	Part Description	Part Number	Qty.
1	Valve- Shrader	071100801	4 [1]
2	Core- Valve	026541100	4 [1]
3	Cap- Valve	032943500	2 [1]
13	Valve- Angle SO	330724704	2 [1]
14	Valve- Charge	038689900	2 [1]

[1] Quantity is for the unit. Circuit #1 and Circuit #2 parts are the same.

Refrigeration Section
Tubing- Liquid Lines, Continued

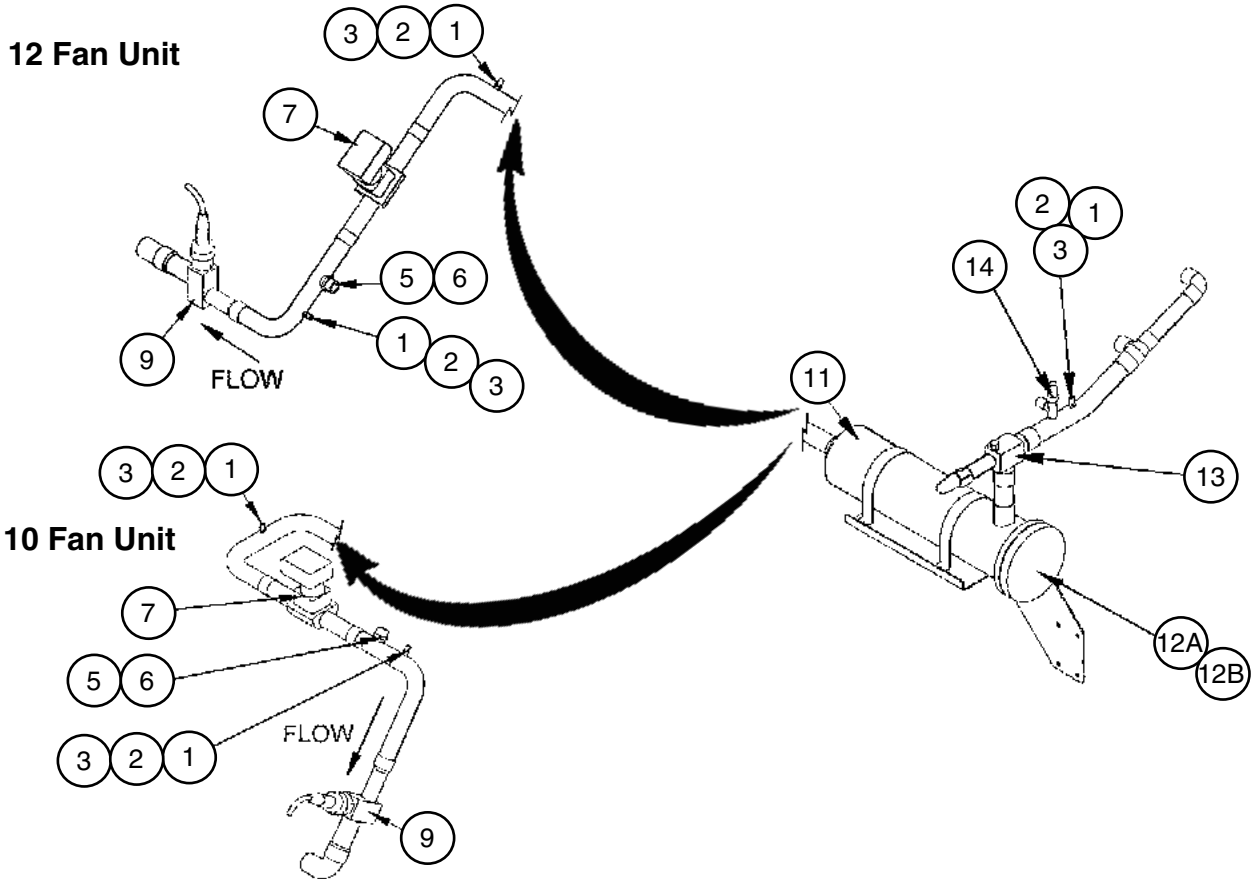
Liquid Line Line Detail- Remote Evaporator Unit- Code 03= M or F
With Economizer- Unit Sizes 190D High Eff. (Code 03= F), 200D



Ref No.	Part Description	Part Number	Qty.
1	Valve- Shrader	071100801	5
2	Core- Valve	026541100	5
3	Cap- Valve	032943500	5
11	Filter Drier	071993501	2
12A	Core- Filter Drier	070339101	6
12B	Gasket- Drier	074783601	4
13	Valve- Angle Shutoff	330724704	2
14	Valve- Charge	038689900	2
19	Valve- Solenoid	331451003	2
20	Valve- 16 Ton TXV	070300644	2
70	Heat Exchanger- Circuit # 1	074666406	1
80	Heat Exchanger- Circuit # 2	074666405	1
101	Fitting- Elbow	070789379	4
102	Sleeve- Orifice	070789361	4
103	Nut- Orifice	070789360	4

Refrigeration Section
Tubing- Liquid Lines, Continued

Liquid Line Line Detail- Package Unit- Code 03= S or E
No Economizer- Unit Sizes 170D, 190D Std. Eff. (Code 03= M), 210D

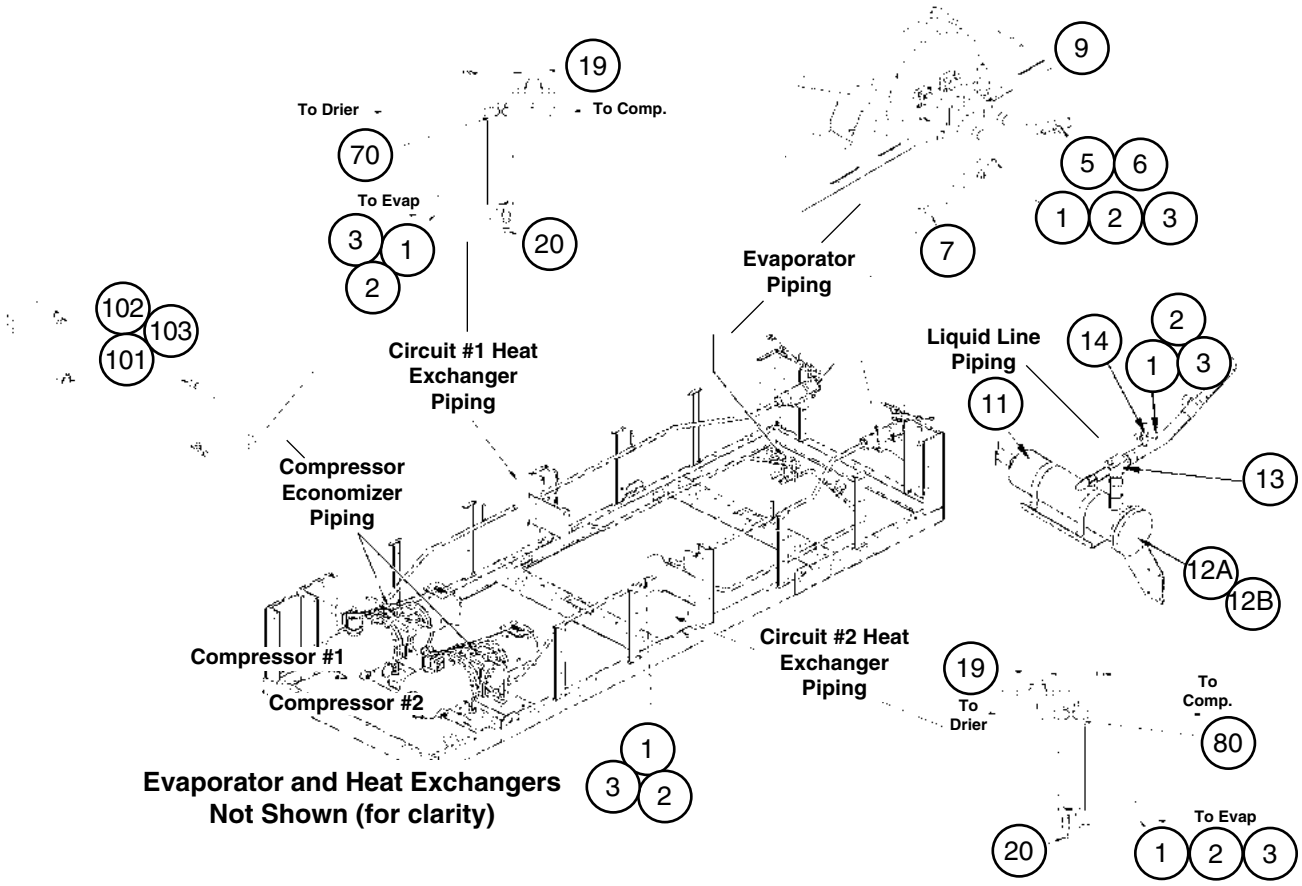


Ref No.	Part Description	Part Number	Qty.
1	Valve- Shrader	071100801	6[1]
2	Core- Valve	026541100	6[1]
3	Cap- Valve	032943500	6[1]
5	Saddle- Sight Glass	330508704	2[1]
6	Cap- Sight Glass	330508701	2[1]
7	Valve- Solenoid	331451006	2[1]
9	Valve- Electric Expansion	330386202	2[1]
11	Filter Drier	071993501	2[1]
12A	Core- Filter Drier	070339101	6[1]
12B	Gasket- Drier	074783601	4[1]
13	Valve- Angle Shutoff	330724704	2[1]
14	Valve- Charge	038689900	2[1]

[1] Quantity is for the unit. Circuit #1 and Circuit #2 parts are the same.

Refrigeration Section
Tubing- Liquid Lines, Continued

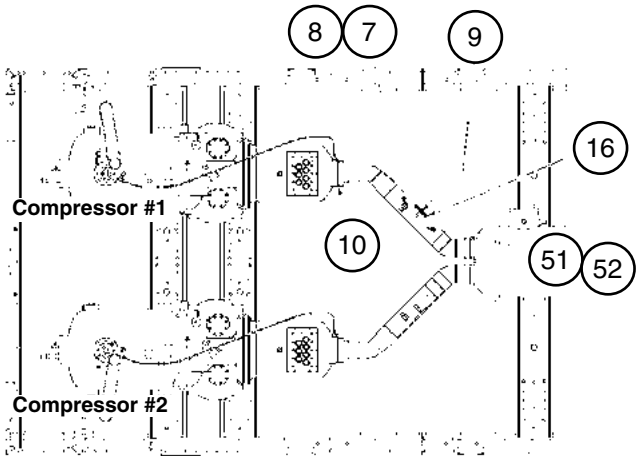
Liquid Line Line Detail- Package Unit- Code 03= S or E
With Economizer- Unit Sizes 190D High Eff. (Code 03= F), 200D



Ref No.	Part Description	Part Number	Qty.
1	Valve- Shrader	071100801	6
2	Core- Valve	026541100	6
3	Cap- Valve	032943500	6
5	Saddle- Sight Glass	330508704	2
6	Cap- Sight Glass	330508701	2
7	Valve- Solenoid	331451006	2
9	Valve- Electric Expansion	330386202	2
11	Filter Drier	071993501	2
12A	Core- Filter Drier	070339101	6
12B	Gasket- Drier	074783601	4
13	Valve- Angle Shutoff	330724704	2
14	Valve- Charge	038689900	2
19	Valve- Solenoid	331451003	2
20	Valve- 16 Ton TXV	070300644	2
70	Heat Exchanger- Circuit # 1	074666406	1
80	Heat Exchanger- Circuit # 2	074666405	1
101	Fitting- Elbow	070789379	4
102	Sleeve- Orifice	070789361	4
103	Nut- Orifice	070789360	4

Refrigeration Section
Tubing- Suction Lines

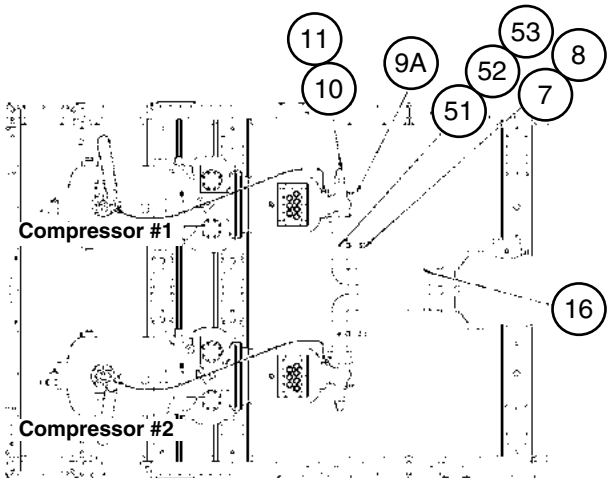
Suction Line Line Detail-
No Suction Shut Off Valve- Code 24= NN
Package Unit- Code 03= S or E



Ref No.	Part Description	Part Number	Qty.
7	Coupling- Half	735031474	2 [1]
8	Valve- Relief	735045852	2 [1]
9	Valve- Charge	038689900	2 [1]
10	Gasket- Head	070199104	2 [1]
16	Tube- Sensor	070228901	2 [1]
51	Valve- Shrader	071100801	2 [1]
52	Core- Valve	026541100	2 [1]

[1] Quantity is for the unit. Circuit #1 and Circuit #2 parts are the same.

Suction Line Line Detail-
W/ Suction Shut Off Valve- Code 24= SS
Package Unit- Code 03= S or E

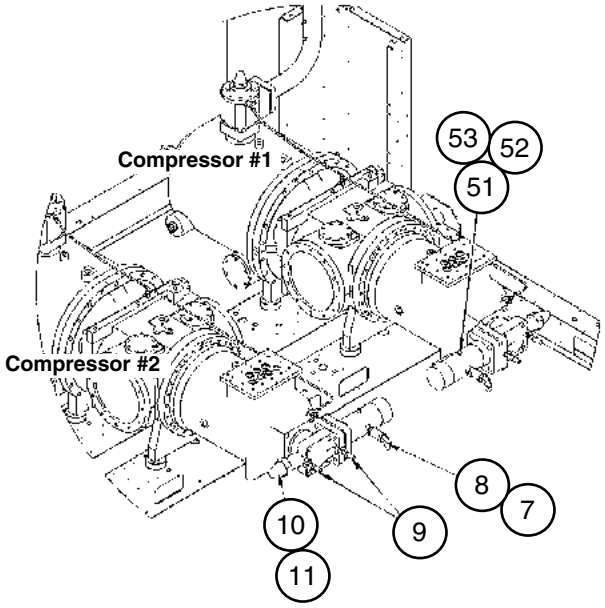


Ref No.	Part Description	Part Number	Qty.
7	Coupling- Half	735031474	2 [2]
8	Valve- Relief	735045852	2 [2]
9A	Valve- Shut Off	735039918	2 [2]
10	Gasket- Head	070199104	4 [2]
11	Valve- 3" Suction Shut Off	735039807	2 [2]
16	Tube- Sensor	070228901	2 [2]
51	Valve- Shrader	071100801	2 [2]
52	Core- Valve	026541100	2 [2]
53	Cap- Brass	032943500	2 [2]

[2] Quantity is for the unit. Circuit #1 and Circuit #2 parts are the same.

Refrigeration Section
Tubing- Suction Lines, Continued

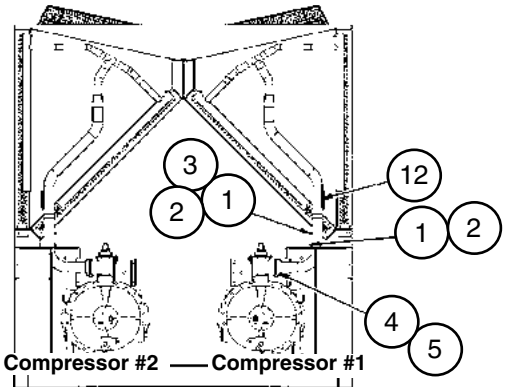
Suction Line Line Detail-
Remote Evaporator Unit- Code 03= M or F



Ref No.	Part Description	Part Number	Qty.
7	Coupling- Half	735031474	2 [1]
8	Valve- Relief	735045852	2 [1]
9	Valve- Shut Off	735039918	4 [1]
10	Gasket- Head	070199104	4 [1]
11	Valve- 3" Suction Shut Off	735039807	2 [1]
51	Valve- Shrader	071100801	2 [1]
52	Core- Valve	026541100	2 [1]
53	Cap- Brass	032943500	2 [1]

[1] Quantity is for the unit. Circuit #1 and Circuit #2 parts are the same.

Refrigeration Section
Tubing- Discharge Lines

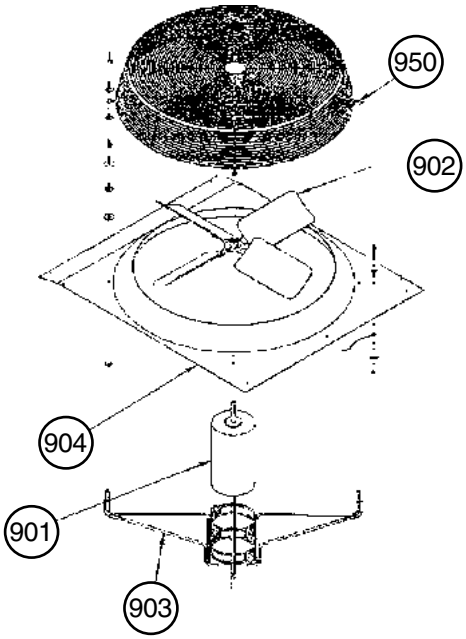


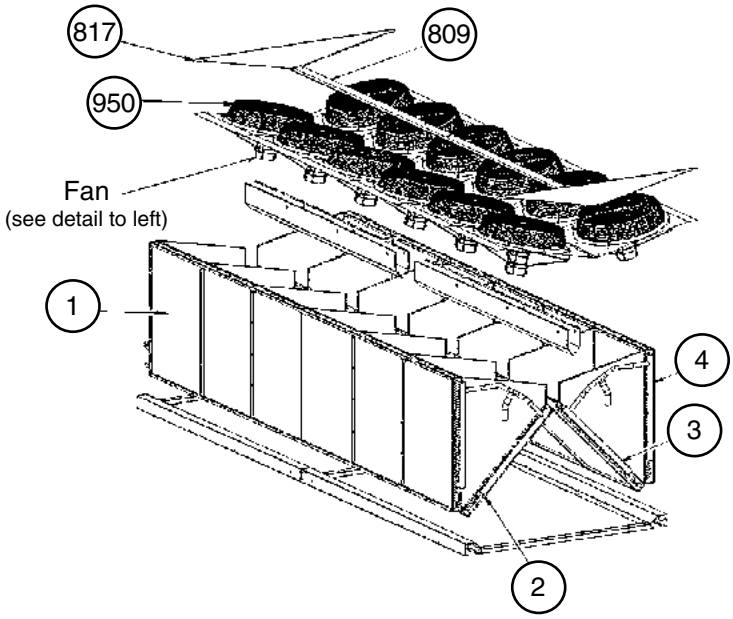
Ref No.	Part Description	Part Number	Qty.
1	Valve- Shrader	071100801	4 [1]
2	Core- Valve	026541100	4 [1]
3	Cap- Brass	032943500	2 [1]
4	Coupling	074606801	2 [1]
5	Gasket- Head	070199108	2 [1]
12	Tube- Sensor	070228901	2 [1]

[1] Quantity is for the unit. Circuit #1 and Circuit #2 parts are the same.

Condenser Section
Condenser Coil, Fan Deck Components

Fan Detail



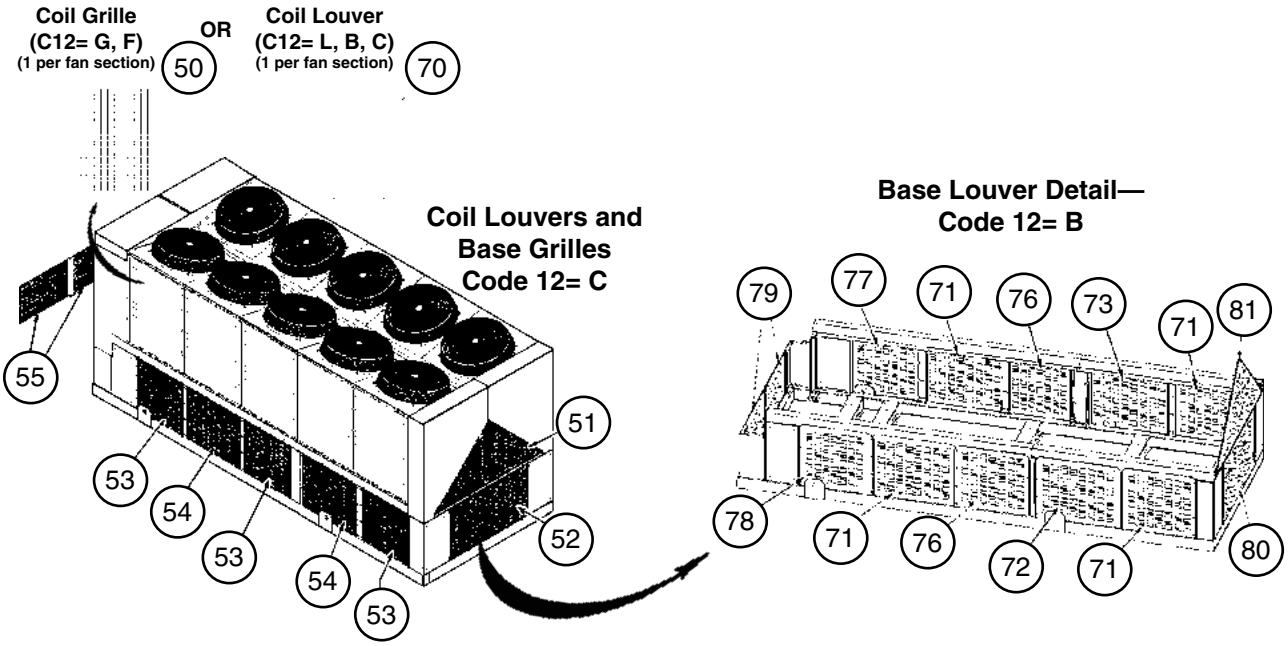


Ref No.	Part Description	Part Number	Unit Size																	
			140			160			170			190			200			210		
			208/230V	460V	575V	208/230V	460V	575V	208/230V	460V	575V	208/230V	460V	575V	208/230V	460V	575V	208/230V	460V	575V
1	Condenser Coil	[1]																		
2	Condenser Coil	[1]																		
3	Condenser Coil	[1]																		
4	Condenser Coil	[1]																		
809	V Channel	330497801	1	1	1	1	1	1	[2]	[2]	[2]	2	2	2	2	2	2	2	2	2
817	Panel- Filler	330515401	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
901	Motor- Fan 2.0HP	330423302	10			10			[3]			12			12					
	Motor- Fan 2.0HP	330293902		10			10			[3]			12			12				
	Motor- Fan 2.0HP	330423702			10			10			[3]			12			12			
	Motor- Fan 2.5HP	330766003																12	12	
	Motor- Fan 2.5HP	330766101																		12
902	Fan Blade	330294001	10	10	10	10	10	10	[3]	[3]	[3]	12	12	12	12	12	12			
	Fan Blade	330424001																12	12	12
903	Motor Mount [4]	330260701K	10	10	10	10	10	10	[3]	[3]	[3]	12	12	12	12	12	12	12	12	12
904	Panel- Venturi	330288202	10	10	10	10	10	10	[3]	[3]	[3]	12	12	12	12	12	12	12	12	12
950	Grille- Fan	331444501	10	10	10	10	10	10	[3]	[3]	[3]	12	12	12	12	12	12	12	12	12

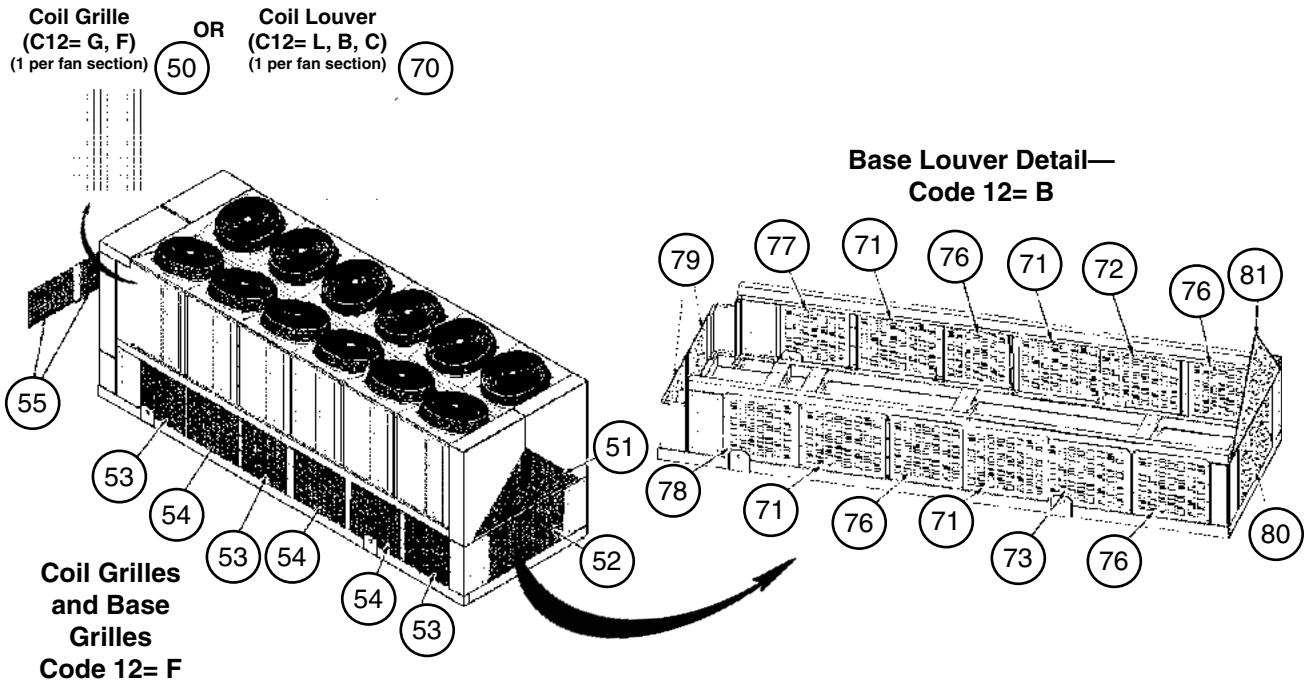
[1] Contact Daikin Applied with unit serial number and/or GO number.
[2] Quantity of 1 for unit size 170D standard efficiency (Code 3= S, M). High efficiency units (Code 3= E, F) use a quantity of 2.
[3] Quantity of 10 for unit size 170D standard efficiency (Code 3= S, M). High efficiency units (Code 3= E, F) use a quantity of 12.
[4] The Motor Mount comes in two pieces. 330260701K includes the two brackets. Mounting hardware is not included.

Coil Grilles, Coil Louvers, Base Grilles, Base Louvers
Diagrams

10 Fan Unit— 140D, 160D & 170D Standard Efficiency



12 Fan Unit— 170D High Efficiency, 190D, 200D, & 210D



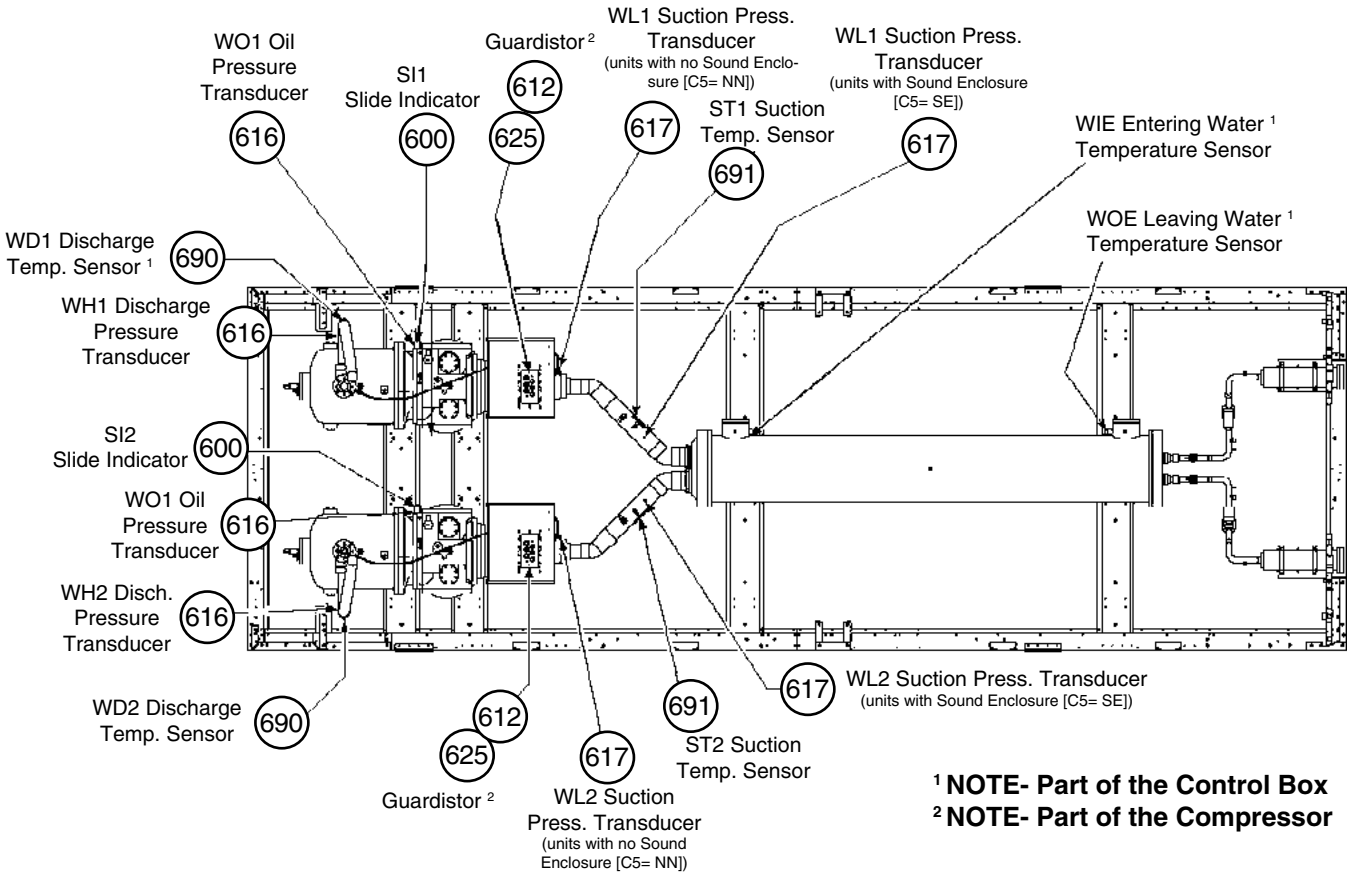
Coil Grilles, Coil Louvers, Base Grilles, Base Louvers
Components

Ref No.	Part Description		Part Number	Number of Fans	
				10 Fans [1]	12 Fans [2]
	Condenser Coil Grilles	**Code 12= G, F**			
50	Grille- Coil		330802401	10	12
	Screw for Ref. # 50		331578401	12/grille	12/grille
	Base Grilles	**Code 12= F, C**			
51	Grille- Triangle		330515201	1	1
52	Grille- End Base	54.68 x 31.38	330802501	1	1
53	Grille- Side Base	33.00 x 32.14	330802601	4	6
54	Grille- Fan Base	37.77 x 31.82	330496301	6	6
55	Grille- Base	37.40 x 29.50	331699601	2	2
	Screw for Base Grilles		331578401	168	289
	Condenser Coil Louvers	**Code 12= B, C, L**			
70	Louver- Coil		330455001	10	12
	Screw for Ref. # 70		331578401	12/louver	12/louver
	Base Louvers	**Code 12= B**			
71	Louver- Base	40" W	330707101	4	4
72	Louver- Side Rear Base, RH Notch	40" W	330707201	1	1
73	Louver- Side Rear Base, LH Notch	40" W	330707301	1	1
76	Louver- Base	35" W	330707601	2	4
77	Louver- Side Rear Base, RH Notch	35" W	330707701	1	1
78	Louver- Side Rear Base, LH Notch	35" W	330707801	1	1
79	Louver- Front Base		331389001	2	2
80	Louver- Rear Base		330708001	1	1
81	Louver- Triangle		330708101	1	1
	Screw for Base Louvers		331578401	175	200

[1] 140, 160, & 170D Standard Efficiency units (Code 03= S, M).
[2] 170D High Efficiency units (Code 03= E, F), & 190, 200 and 210D units.

Transducers, Pressure Switches, Slide Indicators, Terminal Blocks

Packaged Units (Code 2= S or E)



[1] NOTE- Part of the Control Box
[2] NOTE- Part of the Compressor

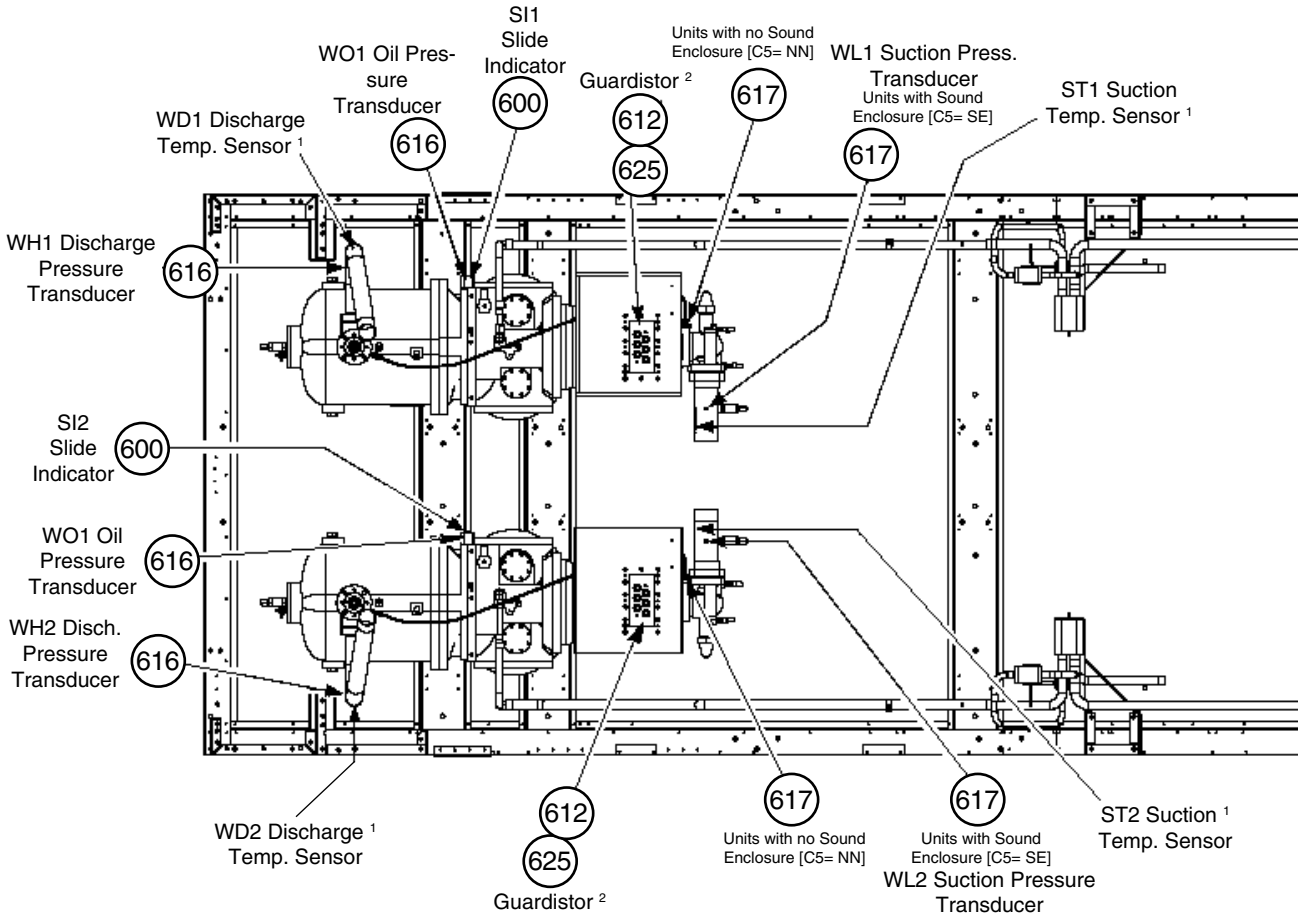
Ref No.	Sch. Sym.	Part Description		Part Number	Qty.
600	SI1, 2	Slide Indicator / Linear Transducer		330591101	2
612		Terminal Block- Guardistor		331487501	2
616	WH1 ,2	High Pressure (Discharge) Transducer		L129150069	2
	WO1, 2	High Pressure (Oil) Transducer		L129150069	2
617	WL1, 2	Low Pressure (Suction) Transducer		L129150068	2
625		Fitting, Conduit- Guardistor		028391101	2
690	ST1, 2	Temperature Sensor (Discharge)	10K-S	[3]	2 ea.
691	WD1, 2	Temperature Sensor (Suction)	10K-S	073007303	2 ea.
N/S		Transducer Cable		331409904	6

N/S= Not Shown on Diagram.

[3] There are two options for the Discharge Temperature Sensor. 072007303 has a temperature range to 200 degrees. L129151028 has a wider range to 230 degrees. Check the unit software revision level. If Rev. E or earlier: order original sensor 073007303, or upgrade to newer software and order L129151028 which has the wider range. If Rev. F or later: can order either sensor.

Transducers, Pressure Switches, Slide Indicators, Terminal Blocks

Remote Evaporator Units (Code 2= M or F)

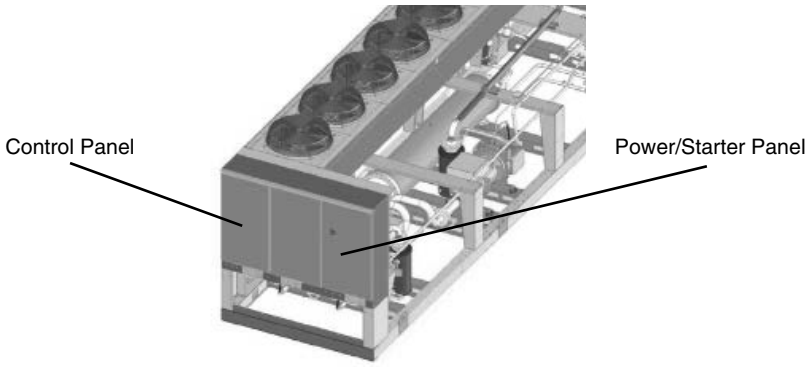


[1] NOTE- Part of the Control Box
[2] NOTE- Part of the Compressor

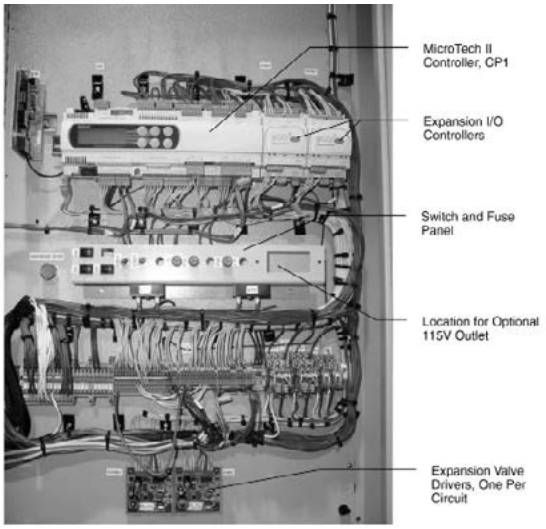
Ref No.	Sch. Sym.	Part Description	Part Number	Qty.
600	SI1, 2	Slide Indicator / Linear Transducer	330591101	2
612		Terminal Block- Guardistor	331487501	2
616	WD1,2	High Pressure (Discharge) Transducer	L129150069	2
	WO1,2	High Pressure (Oil) Transducer	L129150069	2
617	WL1,2	Low Pressure (Suction) Transducer	L129150068	2
625		Fitting, Conduit- Guardistor	028391101	2
N/S	LP1, 2	Low Pressure Switch	073074006	2
		Valve Core for LP1, LP2	026541100	2
		Tee for LP1, LP2 .25F x .25P x .25F	070229302	2

N/S= Not Shown on Diagram.

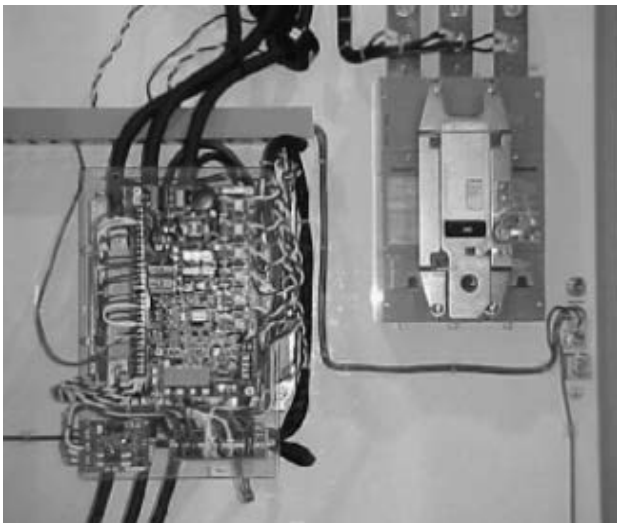
Control Panel
Main Control Box [1]



Typical Control Panel


MicroTech II Controller, CP1
Expansion I/O Controllers
Switch and Fuse Panel
Location for Optional 115V Outlet
Expansion Valve Drivers, One Per Circuit

Typical Solid State Starter w/ Disconnect



Control Box "S" Serial Number
"S" + Year + ##### + detail#

Control Box Part Number

BENSHAW
Serial: S200600100-7 -1
McQuay P.O.: 606257
McQuay Part No.: 790993010B1R01
Box-Elec: K25_ACZ_016A_S_C_FAN_208_SDS_SSC_N_N_N
McQuay Ref. No.: 330620152
Benshaw Part No.: M183AGZ330620152
VOLTS FLA FREQ PHASE NEMA TYPE UL TYPE
208 60 50/60 3 3R 1
"Industrial Control Panel for Air Conditioning Equipment"

[1] For Control Box components not listed, contact Daikin Applied with the COMPLETE **Control Box Serial Number** and **Control Box Part Number** as shown in the above sample label. This label is located inside the Control Box. The above pictures show typical Control Box Layouts. Control Box layouts vary depending upon unit size and options selected.

Control Box
Common Control Box Components [1]

Schem. Sym.	Part Description		Part Number	Qty.
CONTROLLER	Controller [2]		332608301	1
TC	Thermister Board		330343901	1
D3	Starter Board		300042925	1
EXVB	Electronic Expansion Valve Board		330277803	1
PVM	Phase Voltage Monitor	208/230V	070269963	[3]
	Phase Voltage Monitor	460V	070269967	[3]
	Phase Voltage Monitor	575V	070269966	[3]
T2, 3, 4	Transformers- Control		300042178	[4]

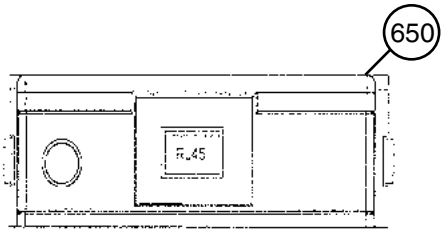
[1] For Control Box components not listed here, contact Daikin Applied with the COMPLETE Control Box Serial Number and Control Box Part Number as shown in the sample label shown on the previous page. This label is located inside the Control Box.

[2] The Controller (Main Control Board) must be programmed in order to function correctly. When ordering a replacement, provide the unit model and serial number so that unit specific software code can be loaded before shipment.

[3] Quantity of one pc. for Single Point Connection (Code 18= PC, DC, DH) and two pc. for Multiple Point connection (Code 18= MN, MH).

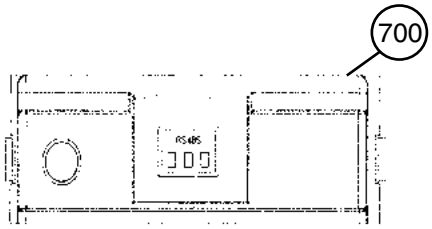
[4] Quantity varies depending upon unit options selected.

Control Panel
Communication Modules [1]



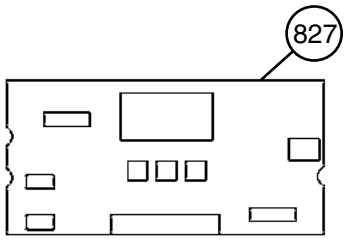
BACnet with IP/Ethernet Module

Ref. No.	Description	Part Number	Qty.
650	BACnet IP/Ethernet Installation Kit	350147406	1



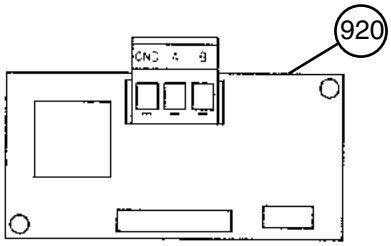
BACnet Communications Module MS/TP

Ref. No.	Description	Part Number	Qty.
700	BACnet MS/TP Installation Kit	350147407	1



MODBUS Communications Module

Ref. No.	Description	Part Number	Qty.
827	MODBUS Installation Kit	350147402	1

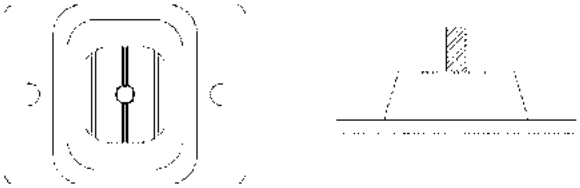


LonMark Communications Module

Ref. No.	Description	Part Number	Qty.
920	LonMark Installation Kit	350147409	1

[1] Note that these Installation Kits can be used to replace an existing Communication Module, to change communication protocol, or to add communication capability to a unit that does not currently have a Communication Module installed. Each Installation Kit includes the Communication Module and Installation instructions.

Vibration Isolator Kits
Rubber-In-Shear (RIS) Mounts



RIS Isolators w/o Pump Package

Description	Condenser Fin Type	Sizes	Kit Part No.	Isolator Colors [1]
R-I-S Kit	Aluminum	140- 170DF, DS 190- 210DM	332325401	4- Lime, 2- Brick Red
R-I-S Kit	Aluminum	140- 170DM	332325403	4- Lime, 2- Brown
R-I-S Kit	Copper	140- 170DM	332325401	4- Lime, 2- Brick Red
R-I-S Kit	Aluminum	140- 190DE 190- 210DS	332325402	6- Lime
R-I-S Kit	Copper	140- 190DF, DS 190- 210DM, DS	332325402	6- Lime

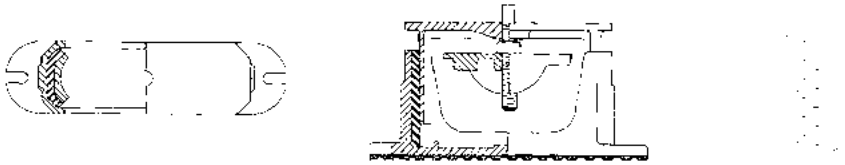
RIS Isolators w/ Pump Package

Description	Condenser Fin Type	Sizes	Kit Part No.	Isolator Colors [1]
R-I-S Kit	ALL	140- 170D	332325404	4- Lime, 4- Brick Red
R-I-S Kit	ALL	190- 210D	332325405	4- Lime, 4- Brick Red

[1] Color Codes: Lime= 331481403; Brick Red= 331481402; Brown= 331481401.

Vibration Isolator Kits
Spring Mounts

Housing Detail **Isolator Spring**



Spring Isolators w/o Pump Package

Description	Condenser Fin Type	Sizes	Kit Part No.	Isolator Spring [1]	Housing [2]
Spring Kit	Aluminum	140- 170DS, DM	332320401	4- Dark Green, 4- White 4- Gray	6- CP2
Spring Kit	Aluminum	190- 210DS, DM 140- 190DE, DF	332320402	8- White, 4- Gray	6- CP2
Spring Kit	Copper	140- 170DS, DM	332320402	8- White, 4- Gray	6- CP2
Spring Kit	Copper	190- 210DS, DM 140-190DE, DF	332320403	12- White	6- CP2

[1] Color Codes: Dark Green= 332620800; White= 332621000; Gray= 332620900.
[2] Housing Code: CP2= 022610300.

Spring Isolators w/ Pump Package

Description	Condenser Fin Type	Sizes	Kit Part No.	Isolator Spring [3]	Housing [4]
Spring Kit	Aluminum	140- 170	332320404	8- Gray, 8- Dark Green	8- CP2
Spring Kit	Aluminum	190- 210	332320405	16- Gray	8- CP2
Spring Kit	Copper	140- 170	332320406	8- Gray, 4- Dark Green 4- White	8- CP2
Spring Kit	Copper	190- 210	332320407	12- Gray, 4- White	8- CP2

[3] Color Codes: Dark Green= 332620800; White= 332621000; Gray= 332620900.
[4] Housing Code: CP2= 022610300.

Field Installed Accessories

Alarm Bell Kit

Description	Part No.	Qty.
Alarm Bell Kit	058090103	1
Alarm Bell Only	017809400	1
Transformer	330386102	1

115V Outlet Kit

Description		Part No.	Qty.
115V Outlet Kit		330904330	1
Outlet Only		330472601	1
Fuse F11	15A/250V	025954700	1
Fuse Holder		018690600	1

Louvers and Grilles

Description	10 Fan Unit	12 Fan Unit	Qty.
Base Guard Louvers- Complete Kit [1]	330904339	330904340	1
Base Guard Grilles- Complete Kit [1]	330904304	330904305	1
Coil Guard Louvers- Complete Kit [1]	330904312	330904313	1
Base & Coil Guard Louvers- Complete Kit [1]	330904327	330904328	1

[1] For base or coil guard placement and individual part numbers see the Cabinet Section.

Remote Evaporator Kit

Description No.	Unit Size	Single Insulation	Double Insulation	Qty.
Rmote Evaporator Kit [2]	140- 170D	330904471	330904481	1
Remote Evaporator Kit [2]	190- 210D	330904472	330904482	1

[2] Contains Evaporator, Insulation, Plugs, Flange, Ball Valve.

Refrigerant Specialties

Description	Part No.	Qty.
Refrigerant Specialties Kit for Remote Evaporator Units	331686003	
Electronic Expansion Valve	330386202	2
Solenoid Valve- 120V	331451006	2
Sensor Tube	070228901	2
Sight Glass	015997808	2
Filter Drier- Shell	071993501	2
Filter Drier- Core	070339101	6
Charge Valve	038689900	2
Shrader Valve	071100801	2
Valve Core	026541100	2
Valve Cap	032943500	2

Field Installed Accessories, Continued

Water Flow Indicator Kit

Description	Part No.	Qty.
Complete Kit	330904361	1
Sensor Only	330571401	1
Cable Assy Only	330571403	1

Sound Enclosure Kit

Description	Part No.	Qty.
Complete Kit	330904343	1